

9-9: Advanced Factoring Techniques

Warm-up: Factor.

1. $2x^3 + 3x^2 + x$

2. $2x^3 + 2x^2 + x^2 + x$

Factoring by Grouping:

Example 1: Factor $6a^2b + 2ac + 3ab^2 + bc$.

Example 2: Factor $4x^2 + 4x - 15$.

Factoring by Grouping and Graphing:

Example 3: Describe the set of ordered pairs (x, y) satisfying $x^3 + 3x^2 - yx - 3y = 0$.

Homework:

"We make a living by what we get. We make a life by what we give." - Winston Churchill